





NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION

CLASS - 4

Question Paper Code : 1B107

KEY

1. B	2. A	3. B	4. C	5. D	6. C	7. B	8. A	9. C	10. A
11. A	12. D	13. C	14. B	15. D	16. D	17. B	18. B	19. A	20. B
21. B	22. B	23. A	24. D	25. B	26. C	27. B	28. A	29. A	30. A
31. C	32. B	33. A	34. D	35. D	36. A	37. A	38. C	39. C	40. B
41. A	42. A	43. A	44. A	45. D	46. D	47. D	48. C	49. D	50. C
51. D	52. C	53. C	54. D	55. C	56. C	57. C	58. B	59. D	60. D

SOLUTIONS

- MATHEMATICS
- 01. (B) 2:25 + 100 minutes = 3:25 + 40 minutes = 4:05
- 02. (A) English alphabet letters are used to represent Roman numerals are 7
- 03. (B) The numbers arranged in ascending order are:
 - (1) 468 ; (2) 486 ; (3) 648 ; (4) 684 ;
 (5) 846 ; (6) 864
 - So, the second number is 486.
- 04. (C) Total number of guests = 75 No. of men = 45
 - ∴ No. of women = 75 45 = 30

- \therefore The required fraction = $\frac{30}{75} = \frac{2}{5}$
- 05. (D) The difference is 23058. Digits present are: 2, 3, 0, 5, and 8. The digit 6 does not occur.
- 06. (C) $1234 \times 90 = 1234 \times 5 \times 18$.
- 07. (B) $120 \div 8 = 15$ 8)120(15) $-\frac{-8}{40}$ -400

08. (A) $6 = \underline{3} \times 2$; $15 = \underline{3} \times 5$

Common factor of 6 & 15 is 3

website : www.unifiedcouncil.com

09. (C)
 The sum is
$$13000 + 1300 + 13 = 14313$$

 10. (A)
 $\frac{8}{10} = \frac{4}{5}$

 11. (A)
 Image: Comparison of the endpoint of the

	20.	(B)	53899 < 54598 < 58455 < 58459
	21.	(B)	109 is not divisible by 9
			30,109 is not a multiple of 9.
	22.	(B)	Total cupcakes sold = 756 + 342 = 1,098
			Adding the unsold cupcakes:
			1,098 + 128 = 1,226
	23.	(A)	Total trees = 27 × 36 = 972
			Trees per garden = $972 \div 9 = 108$
	24.	(D)	The 10th shape is the star.
)	25.	(B)	No. of divisions for 1 litre = 5
) 			Each division measures = 1 $l \div 5$
			= 1000 ml ÷ 5 = 200 ml
			Capacity of water in the container = $1600 \mathrm{m}l$
		<i>:</i> .	Amount of water needed to fill up the container to $2l$ mark
			= (2000 – 1600 m <i>l</i>)
,			100 1
,			= 400 m <i>l</i>
,			= 400 ml <u>GENERAL SCIENCE</u>
	26.	(C)	
·	26. 27.	(C) (B)	<u>GENERAL SCIENCE</u> Sand is insoluble in water. It sinks to the
		()	$\frac{\text{GENERAL SCIENCE}}{\text{Sand is insoluble in water. It sinks to the bottom of the container.}}$ $\text{Mouth} \rightarrow \text{Foodpipe} \rightarrow \text{Stomach} \rightarrow$
	27.	(B)	GENERAL SCIENCESand is insoluble in water. It sinks to the bottom of the container.Mouth → Foodpipe → Stomach → Small intestine.Tadpole is the larval stage of frog. It undergoes changes to form into an
	27. 28.	(B) (A)	GENERAL SCIENCESand is insoluble in water. It sinks to the bottom of the container.Mouth → Foodpipe → Stomach → Small intestine.Tadpole is the larval stage of frog. It undergoes changes to form into an adult frog.
	27. 28. 29.	(B) (A) (A)	GENERAL SCIENCESand is insoluble in water. It sinks to the bottom of the container.Mouth → Foodpipe → Stomach → Small intestine.Tadpole is the larval stage of frog. It undergoes changes to form into an adult frog.The sun gives out heat and light.Fossils are the remains of plants and
	27. 28. 29. 30.	 (B) (A) (A) (A) (A) (C) 	GENERAL SCIENCESand is insoluble in water. It sinks to the bottom of the container.Mouth → Foodpipe → Stomach → Small intestine.Tadpole is the larval stage of frog. It undergoes changes to form into an adult frog.The sun gives out heat and light.Fossils are the remains of plants and animals long ago.

34. (D) The more the temperature difference between the water and the room temperature, the higher the rate of evaporation.

website : www.unifiedcouncil.com

35.	(D)	The rate of evaporation is more from the container which has more exposed	50.	(C		
		surface area and less depth.	51.	(D		
36.	(A)	Nylon is a man made material.				
37.	(A)	A local wind system characterized by a flow from sea to land during the day is called sea breeze.	52. 53.	(C (C		
38.	(C)	Revolution of the earth around the sun takes one year to complete.	54.	(C (D		
39.	(C)	Microscope is used to observe microbes or small parts of a cell.	54. 55.	(D		
40.	(B)	Ice is water in the solid state. A solid has a fixed shape and a fixed volume. A solid cannot be compressed				
		Water vapour is water in the gaseous state. A gas has no fixed shape and no fixed volume. A gas can be compressed	56.	(C		
		Ice is visible (can be seen) but water vapour is invisible (cannot be seen)		atio		
41.	(A)	The freezing point of pure water is 0°C.	57.	(C		
		At the freezing point, 0°C, water changes from the liquid state to the solid state.				
42.	(A)	Air has mass and it can be compressed.				
43.	(A)	Incisors are used to cut the food.				
44.	(A)	A dog is a mammal. Mammals have lungs to breathe in oxygen from the air.				
		Plants have tiny pores called stomata on their leaves or stems to allow air to move in and out or them.				
		A fish has gills (in a gill chamber) to take in oxygen that has dissolved in the water.	58.	(В		
45.	(D)	Large intestine helps in defecation				
46.	(D)	If all the flowers of a mango tree are removed, the tree will not produce fruits.				
47.	(D)	Translocation is the transport of manufactured food substances such as sugars through the phloem tissue from the leaf to all other parts of the plant.	59.	(D		
48.	(C)	Vein, stomata, lamina, blade are all parts of leaf.	60.	(D		
49.	(D)	Bacteria is the cause for tooth decay				
website : www.unifiedcoun						

- The rate of evaporation is more from the 50. (C) During photosyntheses light energy \rightarrow chemical energy
 - D) A lizard drops its tail when it is trying to escape.
 - The coconut falls on the ground is due C) to the gravitational force.
 - A life cycle tells us about the different C) stages of living things life.
 - D) Bread is made from cereals of grass plants.
 - During photosynthesis oxygen is C) liberated and carbon dioxide is used to make food.

CRITICAL THINKING

C)



C)

1 and 5.





Similarly if first hole is on number 2, the second hole is on number 6. (3,4,5 are middle numbers between 2 and 6)

Option (C) only satisfies the given condition.



In the absence of air resistance, all D) objects fall to the ground at the same rate regardless of their height, mass, or shape.

The solution to the riddle is a memory. D)